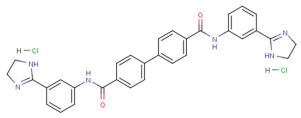
Data Sheet (Cat.No.T10586L)

TargetMol
A DRUG SCREENING EXPERT

BPH-1358

Chemical Properties



CAS No.:	5352-53-4
Formula:	C32H30Cl2N6O2
Molecular Weight:	601.53
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	BPH-1358 (NSC50460) is a potent human farnesyl diphosphate synthase (FPPS) and undecaprenyl diphosphate synthase (UPPS) inhibitor. With IC50s of 1.8 μM and 110 nM, respectively. And it is active against S. aureus in vitro (MIC ~250 ng/mL)[1][2].
Targets(IC_{50})	human bisphosphonate farnesyl diphosphate synthase: 1.8 μM
In vitro	BPH-1358 against E. coli and S. aureus with EC50 of 300 nM and 290 nM, respectively[1]. BPH-1358 is the most potent inhibitor of both E. coli UPPS (EcUPPS) as well as S. aureus UPPS (SaUPPS), with an IC50 of 110 nM.
In vivo	BPH-1358 is active against S. aureus in vivo (20/20 mice survived in an i.p. infection model with a MRSA strain) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.662 mL	8.312 mL	16.624 mL
5 mM	0.332 mL	1.662 mL	3.325 mL
10 mM	0.166 mL	0.831 mL	1.662 mL
50 mM	0.033 mL	0.166 mL	0.332 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Zhu W, et al. Antibacterial drug leads: DNA and enzyme multitargeting. J Med Chem. 2015 Feb 12;58(3):1215-27.
2. Liu YL, et al. Farnesyl diphosphate synthase inhibitors with unique ligand-binding geometries. ACS Med Chem Lett. 2015 Jan 29;6(3):349-54.

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